Notice of Allowability	Application No.	Applicant(s)		
	10/825,692	HOTEZ ET AL.		
	Examiner	Art Unit		
	Robert A. Zeman	1645		
The MAILING DATE of this communication appeal All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this apply or other appropriate communication IGHTS. This application is subject to	plication. If not includ will be mailed in due	ed · course, THIS	
1. 🗵 This communication is responsive to the amendment filed	on 5-18-2007.			
2. X The allowed claim(s) is/are 103 and 138-140 now reneuml	bered 1-4 respectively.			
 Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Application No		tion from the	
* Certified copies not received:			•	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the re	quirements	
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			IOTICE OF	
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) ☐ including changes required by the Notice of Draftspers	•	948) attached		
1) hereto or 2) to Paper No./Mail Date	:	•		
(b) ☐ including changes required by the attached Examiner' Paper No./Mail Date	s Amendment / Comment or in the C	Office action of		
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			e back) of	
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			Note the	
·			•	
·	•			
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application	-	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),		
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Dat 7. ⊠ Examiner's Amendr			
Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	8. Examiner's Stateme	ent of Reasons for Alle	owance	
of Biological Material	9.	_		
	•	////	7	
		ROBERT A. ZEMA		

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or

additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR

1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the

payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with

Michael E. Whitham on July 24, 2007.

The application has been amended as follows:

In the Claims:

Claims 103 and 138-140 were replaced with the following:

A method of reducing the worm burden of human hookworm Necator americanus in a

mammal or eliciting an immune response in said mammal comprising the step of:

administering to said mammal an effective amount of a composition comprising Na-ASP-

2 having the amino acid sequence of SEQ ID NO:69; an adult stage hookworm antigen selected

from the group consisting of Na-APR-1 having the amino acid sequence of SEQ ID NO 8 and

Na-CP-2 having the amino acid sequence of SEQ ID NO:84, and at least one adjuvant, wherein

the immune response is directed against the *Necator americanus* antigens of the administered

composition.

138. The method of claim 103, wherein said adult stage hookworm antigen is Na-APR-1

having the amino acid of SEQ ID NO:8.

Art Unit: 1645

- The method of claim 103, wherein said at least one adjuvant comprises two different 139. adjuvants.
- 140. The method of claim 139, wherein one of said two different adjuvants is an aluminum hydroxide gel.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert A. Zeman whose telephone number is (571) 272-0866. The examiner can normally be reached on Monday- Thursday, 7am -5:30 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey Siew can be reached on (571) 272-0787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov.

Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Art Unit: 1645

If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ROBERT A. ZEMAN PRIMARY EXAMINER

July 24, 2007